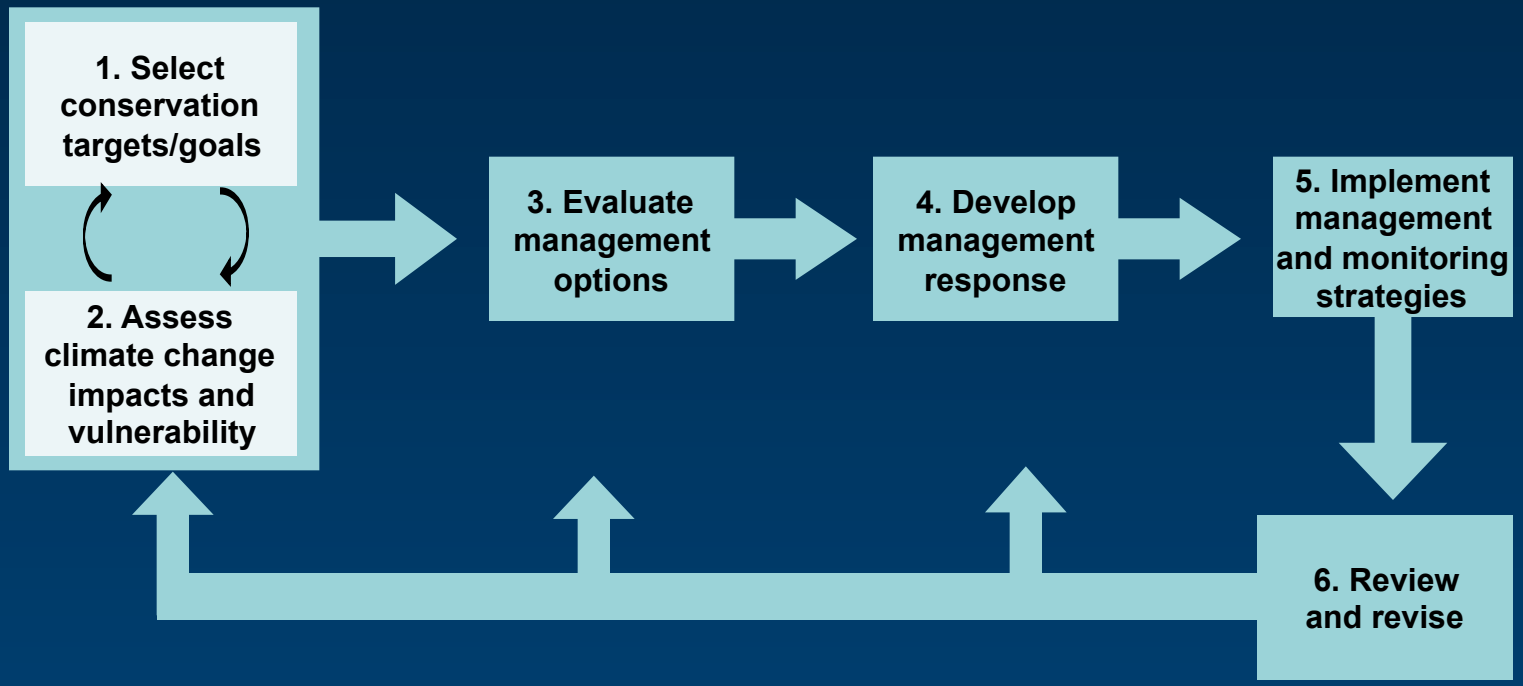
Moving from Assessment to Taking Action

A Few Key Principles



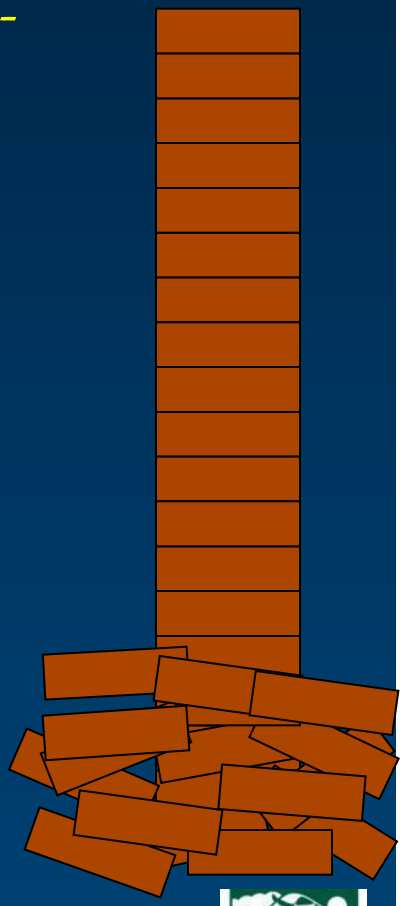
Patty Glick
Senior Global Warming Specialist
National Wildlife Federation

Designing Adaptation Strategies



(Overcoming) Barriers to Adaptation

— Lack of knowledge of climate change impacts	*Research, workshops, info-sharing*
— Uncertainty	*Adaptive management, scenario planning*
— Psychological and institutional barriers	*Reevaluation of goals, policies, procedures*
— Lack of resources	*Dedicated funding, prioritization*
— Political will	*Encourage leadership*



NATIONAL WILDLIFE FEDERATION

Overarching Adaptation Principles

Reduce Other, Non-climate Stressors

- Stormwater runoff
- Habitat fragmentation
- Invasive species

Manage for Ecological Function and Biological Diversity

Improve Habitat Connectivity

- Buffer zones
- Corridors

NATIONAL WILDLIFE FEDERATION

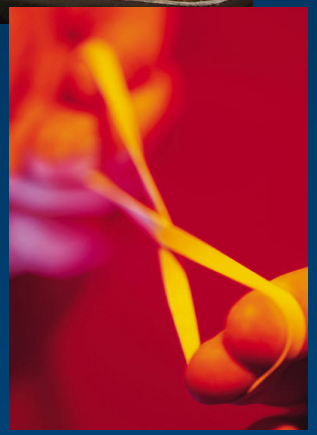
Overarching Adaptation Principles

Implement Proactive Management and Restoration

- Assisted accretion
- Structural management options
- Consider climate "resilient" plants

Embrace Uncertainty

- Increased monitoring
- Adaptive management



NATIONAL WILDLIFE FEDERATION

Using Assessment Results

Prioritize Species and Systems

- Identify sites/species/ systems based on ecological/economic importance and vulnerability to impacts
- Identify areas with potential for upland protection (e.g., marginal agricultural land adjacent to coastal zone)

Using Assessment Results

Develop Management Strategies

- Removal of coastal armoring
- Purchase of development rights/easements
- Restore/build "protective" habitats such as dunes and mangroves
- Assess potential for "assisted accretion," etc. (e.g., connecting to sources of sediments)

NATIONAL WILDLIFE FEDERATION

Using Assessment Results

Efficiently Allocate Resources

- Help improve chances of long-term conservation success
- Identify/support additional research

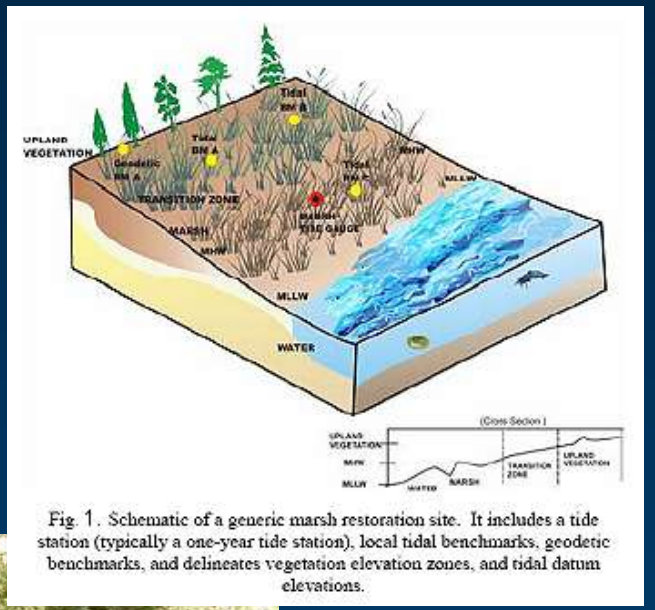


Fig. 1. Schematic of a generic marsh restoration site. It includes a tide station (typically a one-year tide station), local tidal benchmarks, geodetic benchmarks, and delineates vegetation elevation zones, and tidal datum elevations.

NATIONAL WILDLIFE FEDERATION